

The following Listing of Claims will replace all prior versions, and listings, of claims in the application.

LISTING OF CLAIMS:

1. (Currently Amended) A compressor comprising:
a cylindrical sealed container connected to (10) to which an intake pipe (42) and a discharge pipe (14) are connected;
a compression mechanism being disposed in the sealed container to compress (20) which compresses gas introduced from the intake pipe (42) and discharges it and discharge the gas into the sealed container, the compression mechanism including a drive shaft and an intake passage extending in a radial direction thereof, the intake passage opens in an outer face of the compression mechanism such that an opening part of the intake passage in the outer face of the compression mechanism faces a terminal end of the intake pipe; (10),
a motor (30) disposed in the sealed container and operatively connected to the a drive shaft (31) of the compression mechanism; (20); and
an elastic support member supporting (65) that supports the compression mechanism (20) and the motor within the sealed container; and (30), both of which are accommodated in the sealed container (10), wherein an intake passage (40) which passes through the compression mechanism (20) in a radial direction thereof and which opens in an outer face of the compression mechanism (20) is formed in the compression mechanism (20), the intake pipe (42) is arranged so as to face at a terminal end thereof an opening part of the intake passage (20) in the outer face of the compression mechanism (20), one of a peripheral part of the intake passage (40) in the outer face of the compression mechanism (20) and a part of an inner face of the sealed container (10) which faces the peripheral part serves as a sealed face, and

a sealing mechanism (S) including a sealing member (45) pressed against ~~the~~ a sealed face formed by one of a peripheral part of the intake passage in the outer face of the compression mechanism and a part of an inner face of the sealed container which faces the peripheral part to connect the intake pipe and the intake passage with each other by sealing ~~for connecting the intake pipe (42) and the intake passage (40) with each other is provided for~~ sealing a gap between the compression mechanism (20) and the sealed container (10).

2. (Currently Amended) The compressor of claim 1, wherein
~~the part of the inner face of the sealed container (10) which faces the peripheral part~~
~~of the intake passage (40) in the outer face of the compression mechanism (20)~~ serves as the sealed face,

the outer face of the compression mechanism has an annular concave groove that
~~(23a)~~ is formed ~~so as~~ to surround the opening part of the intake passage (40) in the outer face of the compression mechanism (20), and

~~the sealing member (45) is formed in a ring shaped member, which is fitted in the~~
~~concave groove (23a), and which is interposed between a bottom face of the concave groove~~
~~(23a) and the sealed face so as to be deformed elastically therebetween, and the concave~~
~~groove (23a) and the sealing member (45) compose the sealing mechanism (S).~~

3. (Currently Amended) The compressor of claim 2, wherein
the sealing member is an O ring (45).

4. The compressor of claim 2, wherein

the sealing member ~~has (70)~~ is formed in a U-shaped ~~in~~ cross sectional profile so as to be elastically deformed in a thickness direction ~~elastically~~.

5. (Currently Amended) The compressor of claim 1, wherein

the sealed container (10) includes a coupling member (43) having a tip end face facing the peripheral part of the intake passage (40) ~~in the outer face of the compression mechanism (20)~~ and a base end to which the intake pipe (42) is mounted,

~~the peripheral part of the intake passage (40) in the outer face of the compression mechanism (20)~~ serves as the sealed face,

a tip end part of the coupling member ~~has (43)~~ is formed in a cylindrical shape and ~~composes forming~~ a cylindrical portion (71),

the sealing member (72) is formed in a ring shaped ~~member with a rectangular in~~ cross sectional profile and is fitted freely to the cylindrical portion (71), and

the sealing mechanism (S) includes a pressing member ~~applying a (75) for making~~ pressing force ~~to work~~ on the sealing member (72) so that a tip end face of the sealing member (72) is in contact with the sealed face.

6. (Currently Amended) The compressor of claim 5, wherein

the pressing member is a spring (75) that ~~is in contacts with~~ a base end face of the sealing member (72) and the coupling member (43).

7. (Currently Amended) The compressor of claim 6, wherein
the sealing member has an entire inner peripheral face in sliding contact with of the
sealing member (72) slides on an outer peripheral face of the cylindrical portion (71).

8. (Currently Amended) The compressor of claim 5, wherein
the sealing member has an inner peripheral groove (72a) is formed around an entire
perimeter of an inner peripheral face of the sealing member (72), and
the sealing mechanism (S) includes an O ring (76) fitted in the inner peripheral groove
(72a) so as to be and in contact with an outer peripheral face of the cylindrical portion (71).

9. (Currently Amended) The compressor of claim 5, wherein
the pressing member is an O ring that (77) in contacts both a base end face of the
sealing member (72) and the coupling member (43).

10. (Currently Amended) The compressor of claim 1, wherein
the sealed container (10) includes a cylindrical shell (11) extending vertically, an
upper head (12) that blocks an upper end of the shell (11), and a lower head (13) that blocks a
lower end of the shell (11),

the upper head has a lower end that of the upper head (12) is fitted inside the shell
(11), and
one of the compression mechanism and the motor includes a stopper (32a) that
restricts the amount of displacement of the compression mechanism (20) and the motor (30)
by being in contacting with the lower end of the upper head (12) is provided to the

~~compression mechanism (20) or the motor (30) which are supported by the elastic support member (65).~~

11. (Currently Amended) The compressor of claim 1, wherein
the compression mechanism (20) is arranged below the motor (30) in the sealed container (10),
the compression mechanism (20) is fixed to the elastic support member (65) by ~~means~~
~~of a plate-shaped stay member (61) and has a discharge passage (57) formed in a lower face~~
~~of the compression mechanism~~ for discharging compressed gas into the sealed container (10)
~~is formed in a lower face of the compression mechanism (20), and~~
the stay member (61) covers an opening part of the discharge passage (57) in the lower face of the compression mechanism (20).

12. (Currently Amended) The compressor of claim 5, wherein
~~in the sealing mechanism (8), includes an outer peripheral groove (71a) is formed~~
around an entire perimeter of an outer peripheral face of the cylindrical portion (71), ~~and an~~
~~annular split ring member (78) a part of which is cut out is fitted in the outer peripheral~~
~~groove (71a), with an outer peripheral face of the split ring member being (78) is pressed~~
against an inner peripheral face of the sealing member (72) by a restoring force of the ~~split~~
~~elastically deformed~~ ring member (78) which expands naturally in a radial direction ~~so as~~ to seal a gap between the cylindrical portion (71) and the sealing member (82).

13. (Currently Amended) The compressor of claim 12, wherein
the sealing member (72) and the split ring member (78) are made of metal.

14. (Currently Amended) The compressor of claim 1, further comprising:
a differential pressure canceling mechanism configured and arranged to make (52)
~~that makes~~ intake gas pressure ~~to~~ work on the compression mechanism (20) ~~so as~~ to reduce a
pressing force by the discharge of the gas within the sealed container (10) which works on the
compression mechanism (20) towards the intake pipe (42).

15. (Currently Amended) The compressor of claim 14, wherein
the compression mechanism includes (20) is composed of a rotary fluid machinery
having in which a compression chamber (22) is formed between an inner peripheral face of a
cylinder (23) and an outer peripheral face of a piston (25), and
the differential pressure canceling mechanism (52) ~~makes~~ is configured and arranged
to make the intake gas pressure ~~to~~ work on an outer face of the cylinder (23) of the
compression mechanism (20).

16. (Currently Amended) The compressor of claim 15, wherein
the differential pressure canceling mechanism (52) ~~makes~~ is configured and arranged
to make the intake gas pressure ~~to~~ work on a part opposite the intake passage (40) in the outer
face of the cylinder (23).

17. (Currently Amended) The compressor of claim 15, wherein
the differential pressure canceling mechanism (52) includes an intake pressure
chamber (50) formed between the inner face of the sealed container (10) and the outer face of
the cylinder to receive the intake gas pressure, (23) and a communication passage (51) ~~that~~

allows fluidly connecting the intake pressure chamber (50) ~~to communicate~~ with the intake passage (40) of the compression mechanism (20), and such that the intake gas pressure of the intake pressure chamber (50) works on the cylinder (23).

18. (Currently Amended) The compressor of claim 17, wherein
the communication passage (51) of the differential pressure canceling mechanism (52)
is formed in the cylinder (23).

19. (Currently Amended) The compressor of claim 17, wherein
the communication passage (51) of the differential pressure canceling mechanism (52)
is formed as in an arc shape extending along the inner peripheral face of the cylinder (23).

20. (Currently Amended) A compressor comprising:
a cylindrical sealed container connected to (10) ~~to which~~ an intake pipe (42) and a
discharge pipe (14) ~~are connected~~;
a compression mechanism having a cylindrical outer shape and being disposed in the
sealed container to compress (20) ~~that compresses~~ gas introduced from the intake pipe (42)
and discharges it and discharge the gas into the sealed container, the compression mechanism
including a drive shaft and an intake passage opening in an outer peripheral face of the
compression mechanism such that an opening part of the intake passage in the outer face of
the compression mechanism faces a terminal end of the intake pipe; (10);
a motor (30) disposed in the sealed container and operatively connected to the a drive
shaft (31) of the compression mechanism; (20); and

an elastic support member supporting (65) that supports the compression mechanism (20) and the motor within the sealed container; and (30), ~~both of which are accommodated in the sealed container (10), wherein the compression mechanism (20) has a cylindrical outer shape, an intake passage (40) opens in an outer peripheral face of the compression mechanism (20), the intake pipe (42) is arranged so that a terminal end thereof faces an opening part of the intake passage (40) in the outer peripheral face of the compression mechanism (20), and~~

a sealing mechanism configured and arranged in a gap between the outer peripheral face of the compression mechanism and an inner peripheral face of the sealed container that face each other to form (S) for forming a low-pressure space (81) that communicates with the intake passage (40) and the intake pipe. ~~(42) is provided in a gap between the outer peripheral face of the compression mechanism (20) and an inner peripheral face of the sealed container (10) which are face each other.~~

21. (Currently Amended) The compressor of claim 20, wherein the sealing mechanism has at least one O ring (79) ~~is arranged around an entire perimeter of the outer peripheral face of the compression mechanism (20) at each side of the opening part of the intake passage, (40) in the outer peripheral face of the sealing mechanism (S).~~

22. (Currently Amended) The compressor of claim 20, wherein the outer peripheral face of the compression mechanism has at least one concave groove (23e) ~~is formed around an entire perimeter in the outer peripheral face of the compression mechanism (20) at each side of the opening part of the intake passage (40),~~

the sealing mechanism (S) includes ~~the concave groove (23e) and an annular split ring member (80) in an annular shape a part of which is cut out and which is fitted in the concave grooves (23e)~~, and

~~an outer peripheral face of the split ring member (80) is pressed against the inner peripheral face of the sealed container (10) by a restoring force of the split elastically deformed ring member (80) which expands naturally in a radial direction to seal so that a gap between the compression mechanism (20) and the sealed container (10) is sealed.~~

23. (Currently Amended) The compressor of claim 22, wherein
the split ring member (80) is made of metal.

24. (Currently Amended) The compressor of claim 20, wherein
~~the compression mechanism has an oil return passage (29) passing through the compression mechanism (20) extending in an axial direction thereof is formed in~~ of the compression mechanism (20).